In Re Application Mantravadi et al	n of) For:	HIERARCHICAL CODING WARD MULTIPLE ANTENNAS IN A WIRELESS COMMUNICATION
Serial No. 10/791.	314)) Examiner:	SYSTEM
)	2661
Filed: March 1, 2	2004) Group No.	2001
	INFORMATION	DISCLOSUE	RE STATEMENT
Commissioner for FP.O. Box 1450 Alexandria, VA 22			
Dear Sir:			
other information li	sted on the enclosed For		CFR § 1.98, the patents, publication
other information li	sted on the enclosed For		CFR § 1.98, the patents, publication
other information li	sted on the enclosed For	m PTO-1449.	
other information li 005 AWONDAF1 00000103 170026 806 180.00 DA	sted on the enclosed For	m PTO-1449.	ISSION (37 CFR 1.8(a))
other information li 005 AWONDAF1 00000103 170026 006 180.00 DA	sted on the enclosed For 10791314 CERTIFICATE OF MAI	m PTO-1449.	ISSION (37 CFR 1.8(a))
other information li 205 ANONDAF1 00000103 170026 180.00 DA I hereby certify that this deposited with the with sufficient posenvelope addresses	certificate of Mais correspondence is, on the dates	m PTO-1449. LING/TRANSM ate shown below, 1 □ trans	ISSION (37 CFR 1.8(a)) being:
other information li 205 ANONDAFI 00000103 170026 180.00 DA I hereby certify that this deposited with the with sufficient posenvelope addressed Patents, P.O. Box	CERTIFICATE OF MAI s correspondence is, on the da MAILING United States Postal Service tage as first class mail, in an d to the Commissioner for 1450, Alexandria, VA 22313-	m PTO-1449. LING/TRANSM Ate shown below, 1 Trace Date:	ISSION (37 CFR 1.8(a)) being: FACSIMILE smitted by facsimile to the Patent and demark Office.
other information li 2005 AWONDAF1 00000103 170026 180.00 DA I hereby certify that this ☑ deposited with the with sufficient posenvelope addresse Patents, P.O. Box 1450.	CERTIFICATE OF MAI s correspondence is, on the da MAILING United States Postal Service tage as first class mail, in an d to the Commissioner for 1450, Alexandria, VA 22313-	m PTO-1449. LING/TRANSM Ate shown below, 1 Trace Date:	ISSION (37 CFR 1.8(a)) being: FACSIMILE smitted by facsimile to the Patent and

believe may be material to the examination of this application and, with respect to which there may be a duty to disclose in accordance with 37 CFR § 1.56. While the references identified may be material to the examination of this application pursuant to 37 CFR § 1.56, the citation of these references is not intended to constitute an admission that any reference referred to herein is prior art to the invention of this application unless specifically designated as such. Additionally, the filing of this Information Disclosure Statement shall not be construed to mean that any search has been made or, that if made, such search was complete or exhaustive, or that no other material information as defined in 37 CFR § 1.56 exists.

This Information Disclosure Statement is being submitted in accordance with 37 CFR § 1.97(c). A list of the references is set forth on Form PTO-1449, which is enclosed herewith, along with a copy of each cited reference (copies of U.S. references are not enclosed). Applicants respectfully request that the Examiner return to Applicants a copy of the Form PTO-1449 indicating consideration of the references cited thereon.

Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated in the amount of \$180.00 for the fee set forth in 37 CFR § 1.17(p). The Commissioner is hereby further authorized to charge payment of any additional fees that may be required, or credit any overpayment, to Deposit Account No. 17-0026. A duplicate of this sheet is enclosed.

Respectfully submitted,

Dated: March 30, 2005

By:

Sandip (Micky) S. Minhas, Reg. No. 44,945

Phone No.

QUALCOMM Incorporated Attn: Patent Department 5775 Morehouse Drive San Diego, California 92121-1714

Telephone: (

(858) 658-5787

Facsimile:

(858) 658-2502

FORM PTO-1449		U.S. DEPARTMENT O	ATTY. DOCKET NO. S			SERIAL NO.							
PATENT AND TRADEMARK OFFICE			030213		0/791,314	/791,314							
INFORMATION DISCLOSURE AR 3 1 2005 SEATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT									
				Mantravadi et al									
, and	Set C							OUP					
BATTEMA	DATE MAILED: March 29, 2005			March 1,									
		<u> </u>	U.S. PAT	ENT DOC	UMENT	TS				<u></u>			
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME			CLASS	SUB CLASS CLASS APPR					
	Al												
	A2		•	•									
	U.S. PATENT APPLICATION PUBLICATION DOCUMENTS												
*EXAMINER INITIAL		PUBLICATION NUM	1BER	PUB. DATE		NAME	CLASS	SUB		ING DATE IF PROPRIATE			
	B1							•					
	B2						·						
<u>-</u> .	1)2		FOREIGN P	ATENT D	OCUME	ENTS		<u> </u>	1				
EXAMINER INITIAL	EXAMINER Ref No DOCUMEN		. DATE	COUNTRY		ME	CL	ASS	SUB CLASS				
	C1	WO 02/089371 A1	11/7/02	PCT		Hughes Electronics Corp.							
	C2 WO 01/39456 A1 5/31/03		5/31/01	PCT		Thomson Lic							
		OTHER PRIOR A	RT (Includin	g Author,	Title, Da	te, Pertinent P	age, Etc.)			*			
	D1	Kannan Ramchandra	an et al. "MU	LTIRESOLUTION BROADCAST FOR DIGITAL HDTV									
			USING JOINT SOURCE/ CHANNEL CODING", 1/1/93, PAGES 6-22										
	D2 E.G. Larsson et al, "Space-Time Block Coding for Wireless Communications", 5/03, whole												
	document												
	D3	Thomas M. Cover, '	Thomas M. Cover, "Broadcast Channels" 01/72, page 2										
	D4												
	1195												
	D5	Amroui et al, "Codi	Amroui et al, "Coding for the MIMO broadcast channel", 6/29/03, page 296										
	D6		Ten Brink et al, "Detection thresholds of iterative MIMO processing", 6/30/02, whole document										
	D7	Witzke et al, "Iterati	Witzke et al, "Iterative detection of MIMO signals with linear detectors", 11/03/02, pgs 289-293										
	D8		Yisheng et al, "Cooperated TDMA unlink based on hierarchically modulated alamouti code",										
		2/18/04. page 201											
EXAMINE	R			DATE C	ONSIDE	RED							
		if reference considered, whethe considered. Include copy of this					line through	citation if	not in				
								""					